

Novel Methods for the Assay of Troponin I and T and Complexes
of Troponin I and T and Selection of Antibodies for Use in
Immunoassays

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ABSTRACT OF THE DISCLOSURE

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Assay systems and specialized antibodies for the detection and quantitation of troponin I and troponin T in body fluids as an indicator of myocardial infarction. Since troponin I and T exist in various conformations in the blood, the ratios of the monomeric troponin I and T and the binary and ternary complexes, as well as which form of troponin present in the blood, may be related to the metabolic state of the heart. Disclosed is a system to determine the presence of a troponin form or a group of troponin forms in a sample of whole blood, serum or plasma.

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Disclosed is a stabilized composition of troponin; the stabilized composition can comprise a stabilized composition of troponin I, wherein the troponin I is oxidized, the troponin I can be unbound or the troponin I can be in a complex.

Disclosed is a method for improving the recovery of troponin I or T from a surface used in immunoassays

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Also disclosed are antibodies which recognize, unbound troponin forms, the forms of troponin in binary complexes, the ternary complex of troponin I, T and C, and the conformations of troponin I having intramolecularly oxidized and reduced cysteines.

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